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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF STEEL

Date: 29-06-17

Lab ID	:	**CP-2017-06-27-01**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Karaga Mantapa at Yelahanka lake in ward no.01 of Yelahanka Sub Division.
Agency	:	Sri.Y.B.Ramesh, No:34, Down Bazar Road Yelahanka, Bangalore - 64.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/81/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-17
Sample ID No	:	2017-06-27-01-01
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	27-06-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe550	10	0.615	568	685	20.0%	Satisfactory	Satisfactory
2	JSW	Fe550	12	0.888	577	692	18.5%	Satisfactory	Satisfactory
3	JSW	Fe550	16	1.522	588	690	19.0%	Satisfactory	Satisfactory

Note:
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Prepared By:
Harshitha

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Quality Manager

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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2017-06-26-08 **Date: 27-06-2017**
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Construction of Karaga Mantapa at Yelahanka lake in ward no.01 of Yelahanka Sub Division.
Agency : Sri.Y.B.Ramesh, No:34, Down Bazar Road Yelahanka, Bangalore - 64.
Customer's Reference : EE(YNK.D)E-PMT-01/W.O/81/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-06-17
Sample ID No : 2017-06-26-08-01
Sample Type : Birla Super 53 grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test : 26-06-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.45	–
2	Finess by Air permeablity method (m^2/kg, Min)	281.9	225m^2/kg, Min
3	Density (gm/cc)	3.18	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 24-07-2017

Lab ID	:	CP-2017-06-26-08
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Karaga Mantapa at Yelahanka lake in ward no.01 of Yelahanka Sub Division.
Agency	:	Sri.Y.B.Ramesh, No:34, Down Bazar Road Yelahanka, Bangalore - 64.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/81/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-06-17
Sample ID No	:	2017-06-26-08-01
Sample Type	:	Birla Super 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	26-06-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	27.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-06-26-08** **Date: 29-06-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Karaga Mantapa at Yelahanka lake in ward no.01 of Yelahanka Sub Division.
Agency	:	Sri.Y.B.Ramesh, No:34, Down Bazar Road Yelahanka, Bangalore - 64.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/81/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	26-06-17
Sample ID No	:	2017-06-26-08-02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-06-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	423	423	2.8	97.2	90-100
3	20 mm	5623	6046	40.3	59.7	30-70
4	10 mm	4333	10379	69.2	30.8	10-35
5	4.75 mm	4143	14522	96.8	3.2	0-5
6	Pan	478	15000	100.0	0	

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-06-26-08 **Date: 29-06-2017**

Sample ID No : 2017-06-26-08-02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.7	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.25	–

Note:

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TEST REPORT ON COARSE AGGREGATES

Date: 29-06-2017

Lab ID	:	**CP-2017-06-26-08**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Karaga Mantapa at Yelahanka lake in ward no.01 of Yelahanka Sub Division.
Agency	:	Sri.Y.B.Ramesh, No:34, Down Bazar Road Yelahanka, Bangalore - 64.
Customer Reference	:	EE(YNK.D)E-PMT-01/W.O/81/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-06-17
Sample ID No	:	2017-06-26-08-02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-06-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	234	234	4.7	95.3	90-100
3	10 mm	2478	2712	54.2	45.8	25-55
4	4.75 mm	2100	4812	96.2	3.8	0-10
5	Pan	188	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-06-26-08 **Date: 29-06-2017**

Sample ID No : 2017-06-26-08-02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	22.7	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Harshitha

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Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-06-26-08 **Date: 29-06-17**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Karaga Mantapa at Yelahanka lake in ward no.01 of Yelahanka Sub Division.

Agency : Sri.Y.B.Ramesh, No:34, Down Bazar Road Yelahanka, Bangalore - 64.

Customer's Reference : EE(YNK.D)E-PMT-01/W.O/81/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-06-17

Sample ID No : 2017-06-26-08-03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 26-06-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	132	214	21.4	78.6	60-95	75-100	85-100	95-100
4	1.18 mm	155	369	36.9	63.1	30-70	55-90	75-100	90-100
5	600 micron	179	548	54.8	45.2	15-34	35-59	60-79	80-100
6	300 micron	188	736	73.6	26.4	5-20	8-30	12-40	15-50
7	150 micron	186	922	92.2	7.8	0-10	0-10	0-10	0-15
8	Pan	78	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-06-26-08** **Date: 29-06-17**

Sample ID No : 2017-06-26-08-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.15	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	5.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-07-24-01 **Date: 26-07-17**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Karaga Mantapa at Yelahanka lake in ward no.01 of Yelahanka Sub Division.

Agency : Sri.Y.B.Ramesh, No:34, Down Bazar Road Yelahanka, Bangalore - 64.

Customer's Reference : EE(YNK.D)E-PMT-01/W.O/81/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-07-17

Sample ID No : 2017-07-24-01/01

Customer ID : Cement Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete	M20	19/07/2017	26/07/2017	150.20 X 150.22 X 150.20	22563	8.330	419.7	18.6	18.2
2	Cement Concrete	M20	19/07/2017	26/07/2017	150.15 X 150.15 X 150.13	22545	8.214	408.1	18.1	
3	Cement Concrete	M20	19/07/2017	26/07/2017	150.20 X 150.24 X 150.28	22566	8.420	401.7	17.8	

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-07-10-03 **Date: 14-07-17**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Karaga Mantapa at Yelahanka lake in ward no.01 of Yelahanka Sub Division.

Agency : Sri.Y.B.Ramesh, No:34, Down Bazar Road Yelahanka, Bangalore - 64.

Customer's Reference : EE(YNK.D)E-PMT-01/W.O/81/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-17

Sample ID No : 2017-07-10-03/01

Customer ID : Plinth Beam

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Plinth Beam	M30	07/07/2017	14/07/2017	149.22 X 150.44 X 150.47	22449	8.147	541.0	24.1	24.9
2	Plinth Beam	M30	07/07/2017	14/07/2017	149.22 X 150.33 X 150.98	22432	8.165	578.8	25.8	
3	Plinth Beam	M30	07/07/2017	14/07/2017	150.22 X 150.33 X 150.78	22583	8.172	562.3	24.9	

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07-07-17

Lab ID	:	CP-2017-07-05-03
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Karaga Mantapa at Yelahanka lake in ward no.01 of Yelahanka Sub Division.
Agency	:	Sri.Y.B.Ramesh, No:34, Down Bazar Road Yelahanka, Bangalore - 64.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/81/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-07-17
Sample ID No	:	2017-07-05-03-01
Customer ID	:	Footing Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M30	30/06/2017	07/07/2017	150.22 X 150.28 X 150.22	22575	8.345	530.5	23.5	23.8
2	Footing Concrete	M30	30/06/2017	07/07/2017	150.17 X 150.19 X 150.22	22554	8.287	543.6	24.1	
3	Footing Concrete	M30	30/06/2017	07/07/2017	150.15 X 150.18 X 150.13	22550	8.213	538.9	23.9	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF STEEL

Date: 29-06-17

Lab ID	:	**CP-2017-06-27-01**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Karaga Mantapa at Yelahanka lake in ward no.01 of Yelahanka Sub Division.
Agency	:	Sri.Y.B.Ramesh, No:34, Down Bazar Road Yelahanka, Bangalore - 64.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/81/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-17
Sample ID No	:	2017-06-27-01-02
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	28-06-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe550	20	2.478	702	788	18.5%	Satisfactory	Satisfactory
2	JSW	Fe550	25	3.851	718	795	18.0%	Satisfactory	Satisfactory
3	JSW	Fe550	32	6.312	728	790	18.5%	Satisfactory	Satisfactory

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

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